SEQ-300

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

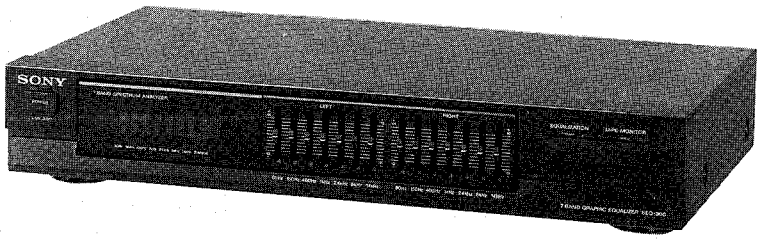


PHOTO: US Model

SPECIFICATIONS

Inputs — LINE IN: Phono jacks, 245 mV (-10 dBs), 50 k ohms
TAPE: Phono jacks, 245 mV (-10 dBs), 50 k ohms

Outputs — LINE OUT: Phono jacks, 245 mV (-10 dBs), Load impedance: more than 10 k ohms
REC OUT: Phono jacks, 245 mV (-10 dBs), Load impedance: more than 10 k ohms

Graphic equalizer
Boost/cut range: ±10 dB
Center frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 14kHz

Frequency response (with EQUALIZATION ON)
LINE IN: 20 Hz to 40 kHz $^{+0}_{-1.5}$ dB

Harmonic distortion
LINE IN: Less than 0.008% (at 1 kHz, 1 V Output)

Signal-to-noise ratio (with EQUALIZATION ON)
LINE IN: Better than 100 dB (A network, 1 V output)

Power requirements
US, Canadian MODEL: 120V AC, 60Hz
AEP MODEL: 220V AC, ~50/60Hz
UK MODEL: 240V AC, ~50/60Hz
E MODEL: 110-120V/220-240V AC, ~50/60Hz

Power consumption
5 W

AC outlet — 100 W, unswitched

Dimensions — Approx. 430 × 80 × 245 mm (w/h/d) (17 × 3¼ × 9¾ inches)

Weight — Approx. 2.3 kg (5 lb 2 oz)

Accessories supplied
Connecting cords (2)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

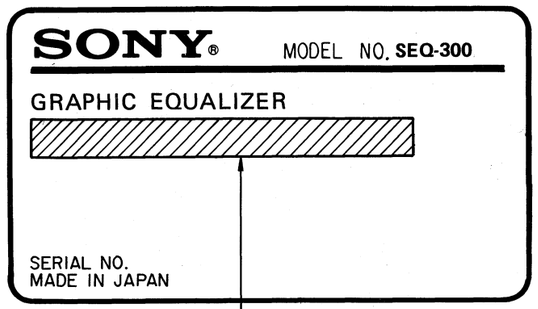
MICROFILM

GRAPHIC EQUALIZER

SONY®

MODEL IDENTIFICATION

– Specification Label on Jack Plate –



US, Canadian model: AC 120V 60Hz 5W
AEP model: AC 220V ~50/60Hz 5W
UK model: AC 240V ~50/60Hz 5W
E model: AC 110-120V/220-240V
~50/60Hz 5W

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

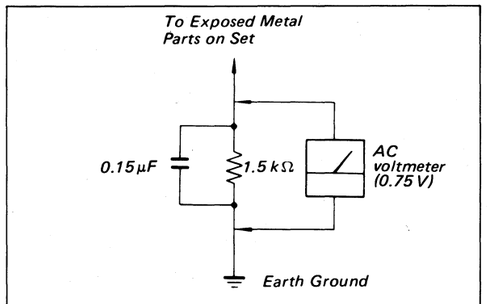
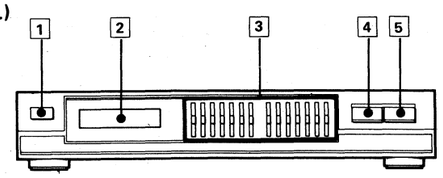


Fig. A. Using an AC voltmeter to check AC leakage.

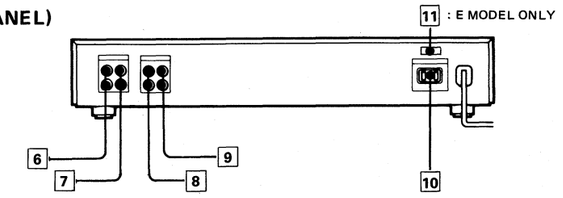
SECTION 1
GENERAL

1-1. FUNCTION OF CONTROLS

(FRONT PANEL)



(BACK PANEL)



1 **POWER switch**
2 **7 BAND SPECTRUM ANALYZER**
3 **Graphic equalizer controls**

Frequency coverage of each equalizer control

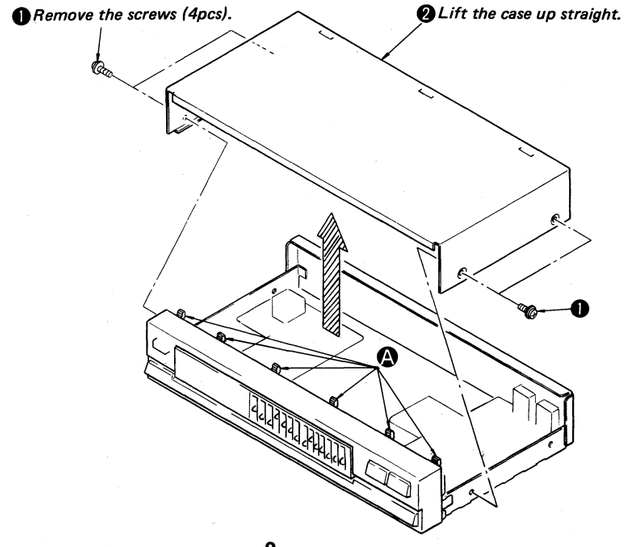
60 Hz: Use to boost or cut the bass.
150 Hz: This control governs the low-middle range and greatly influences the overall characteristics of the sound.
400 Hz: Use to adjust the power, spaciousness and warmth of the sound.
1 kHz: Use to provide more presence for vocals.
2.4 kHz: Use to boost a brighter sound and to reduce stridency.
6 kHz: This control effects the treble. Use to adjust the brightness of the sound and to reduce high frequency noise, such as tape hiss.
14 kHz: This control adjusts the general atmosphere rather than the sound itself.
Use to highlight the delicate quality of instrumental sound.

4 **EQUALIZATION switch**
5 **TAPE switch**
6 **REC OUT jack**
7 **TAPE RECORDER IN jack**
8 **LINE IN jack**
9 **LINE OUT jack**
10 **AC OUTLET (UNSWITCHED 100W MAX)**
11 **VOLTAGE SELECTOR: E MODEL ONLY (110-120V/220-240V)**

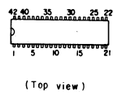
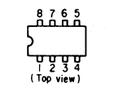
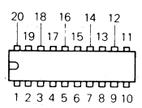
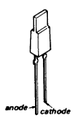
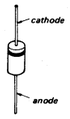
Note: Follow the disassembly procedure in the numerical order given.

1-2. REMOVAL OF THE CASE

Precaution:
When removing the case, lift it up straight with keeping it holizontal as shown below, otherwise 6 claws (A) that the front-panel-side of the case hangs on will be broken.



● **Semiconductors Lead Layout**

LC7566  	**2SC634SP**
M5218P  	**2SC3622A-L**
M5229P  	**SEL1524W-C** 
2SA733-P **2SC945-P** 	**US1060M** **10E2N** **UZL-6M3** 

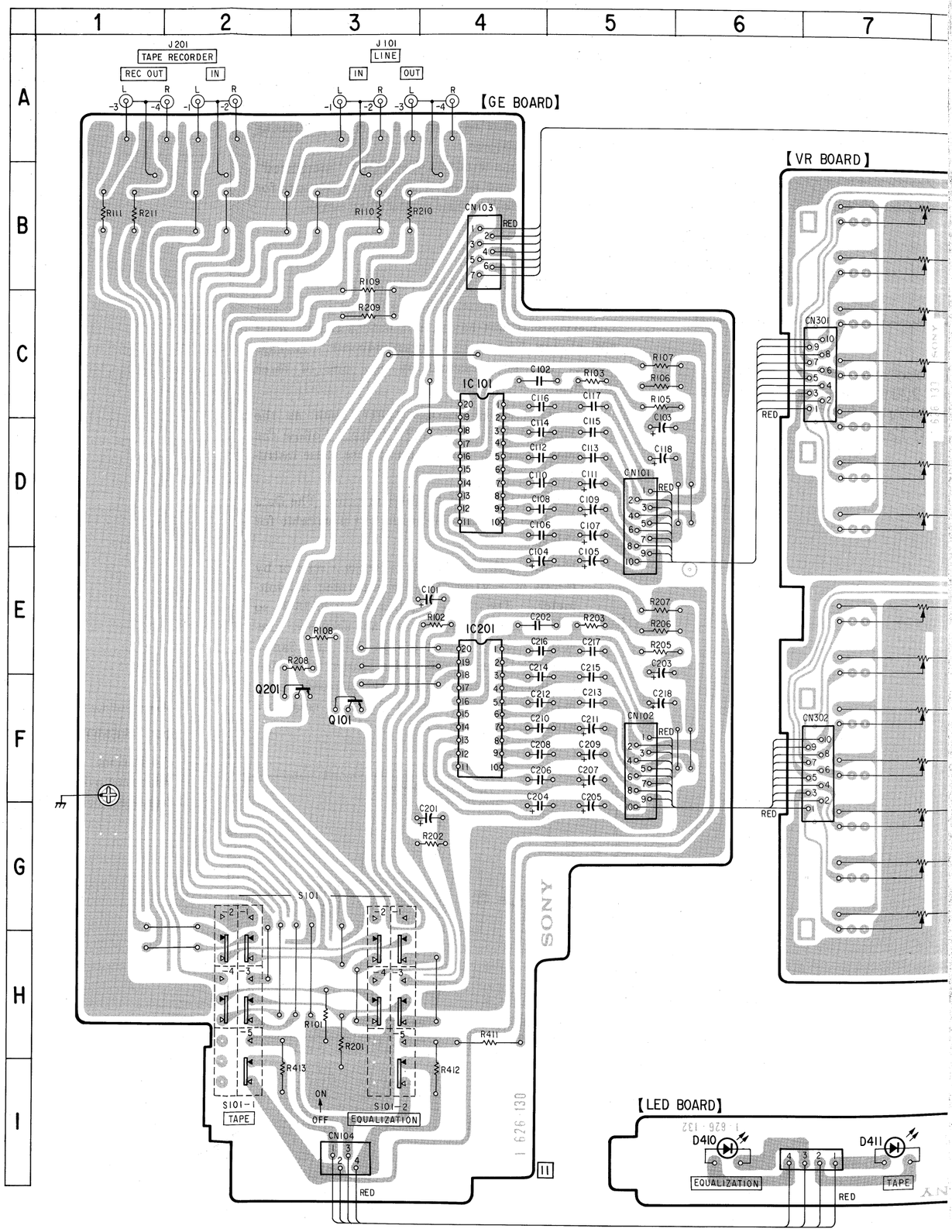
● **SEMICONDUCTOR LOCATION**

Ref.No.	Location
IC101	D−4
IC201	F−4
IC301	F−13
IC302	E−10
IC303	F−10
IC304	G−10
IC305	H−10
Q101	F−3
Q201	F−3
Q401	C−11
Q402	B−11
Q403	D−11
Q404	C−10
D301	E−11
D302	F−11
D303	E−9
D304	E−10
D305	E−11
D306	F−9
D307	F−9
D308	G−9
D309	G−9
D310	H−9
D311	G−9
D312	G−11
D313	G−11
D314	G−11
D315	F−11
D316	E−12
D401	B−12
D402	C−12
D403	C−12
D404	C−12
D405	D−12
D406	D−12
D407	D−12
D408	D−11
D409	D−10
D410	I−6
D411	I−7

Note on Mounting Diagram:

- ○—— : parts extracted from the component side.
- ●—— : parts extracted from the conductor side.

2-2. PRINTED WIRING BOARDS



4	5	6	7	8	9	10	11	12	13	14	15	16

【GE BOARD】

【VR BOARD】

【POWER BOARD】

【LED BOARD】

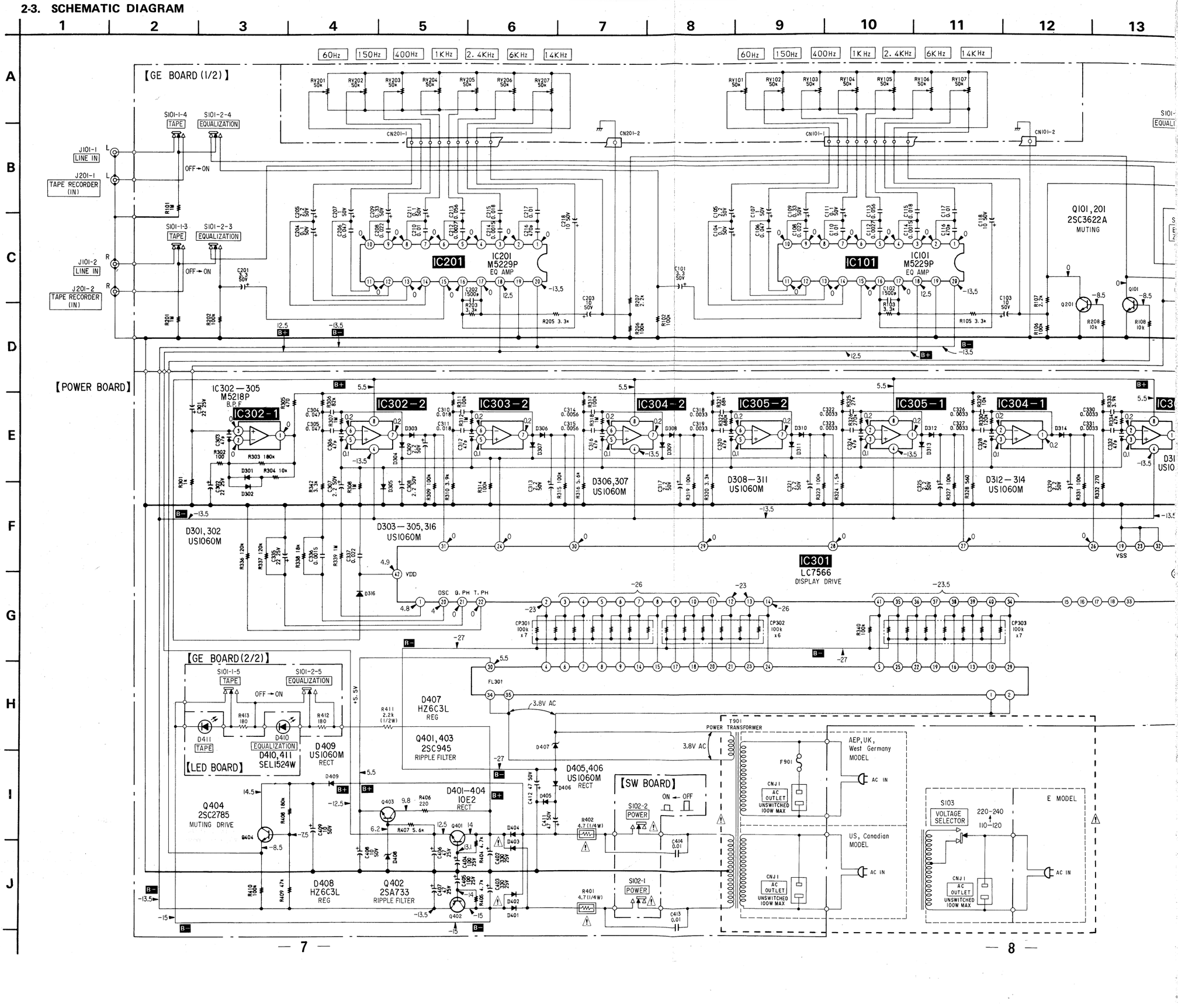
【SW BOARD】

AEP, UK, West Germany MODEL

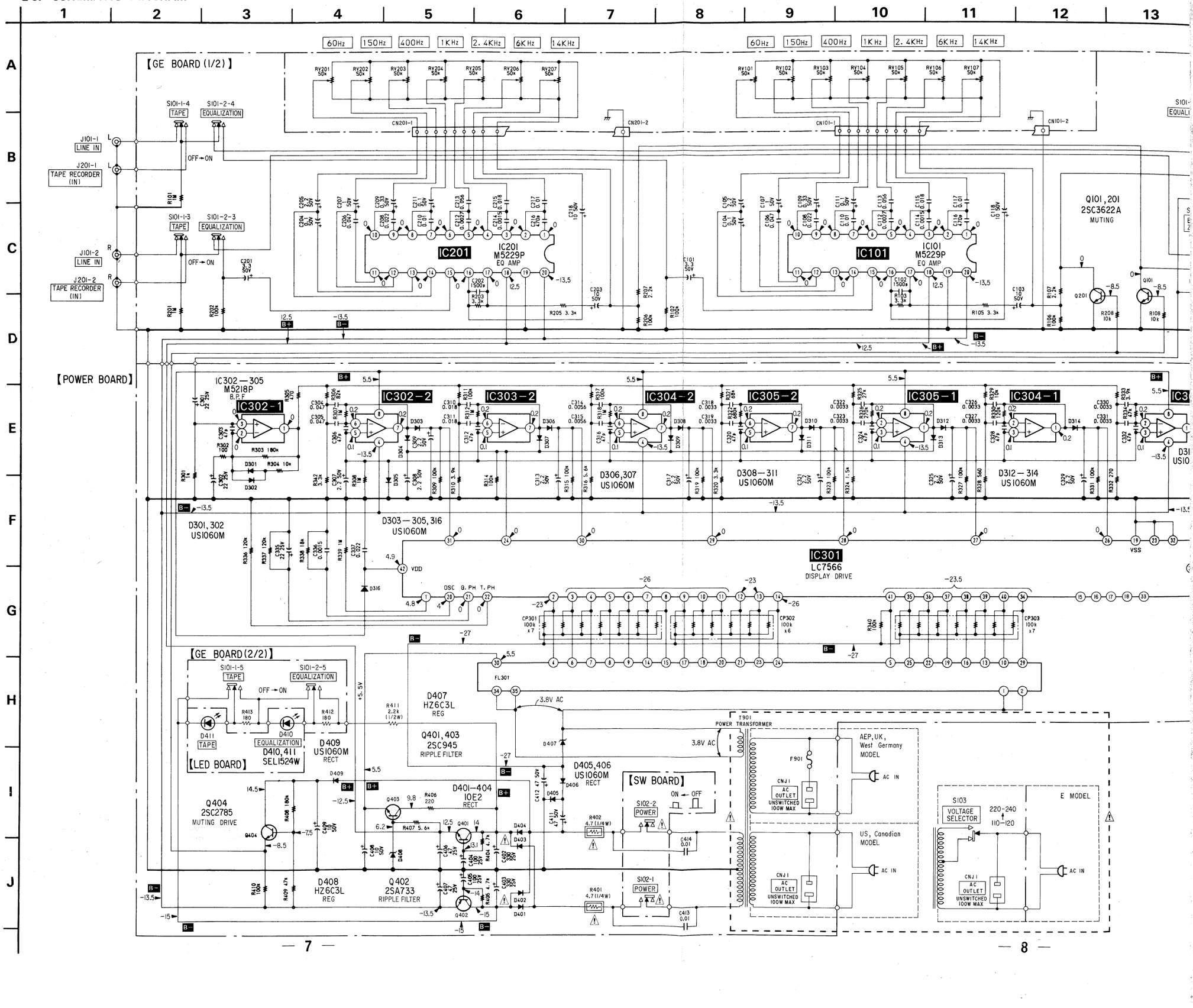
US, Canadian MODEL

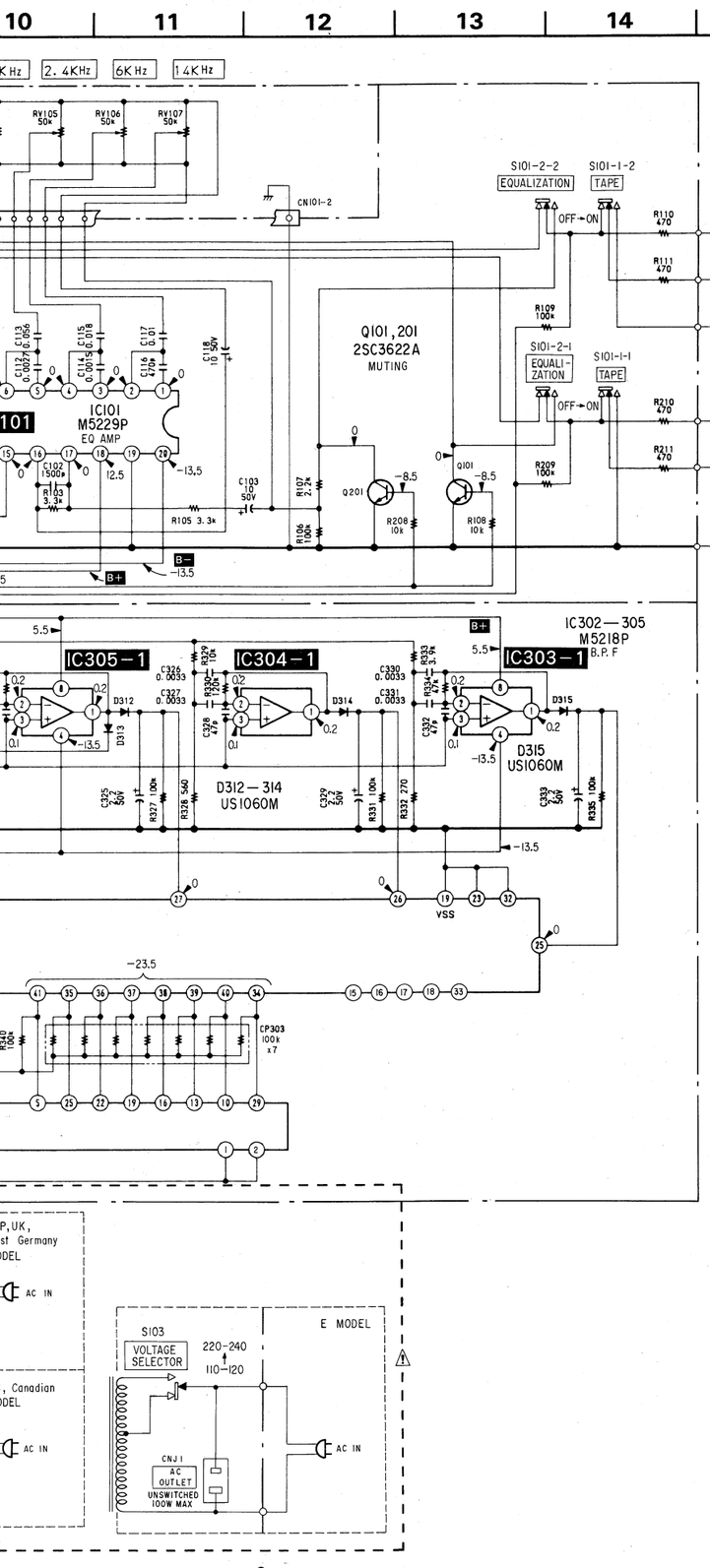
E MODEL

2-3. SCHEMATIC DIAGRAM



2-3. SCHEMATIC DIAGRAM





Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}$W or less unless otherwise specified.
- ⊣W⊢ : nonflammable resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

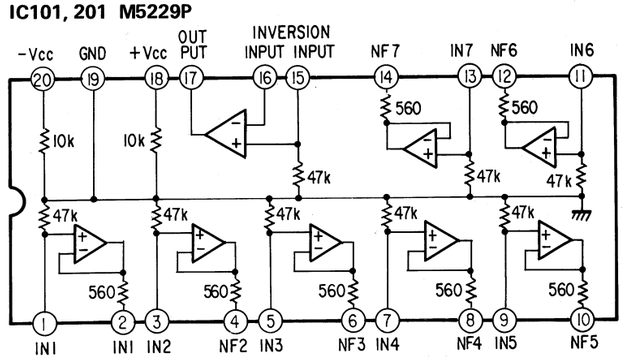
- **Switch**

Ref. No.	Switch	Position
S101-1	TAPE	OFF
S101-2	EQUALIZATION	OFF
S102	POWER	OFF
S103 (E MODEL ONLY)	110-120V/220-240V	110-120V

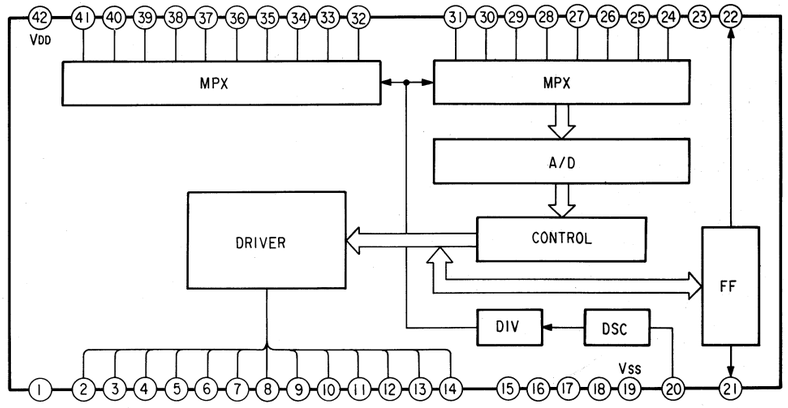
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 kΩ/V). Voltage variations may be noted due to normal production tolerances.

2-1. IC BLOCK DIAGRAMS

IC101, 201 M5229P



IC301 LC7566



SECTION 3
EXPLODED VIEWS

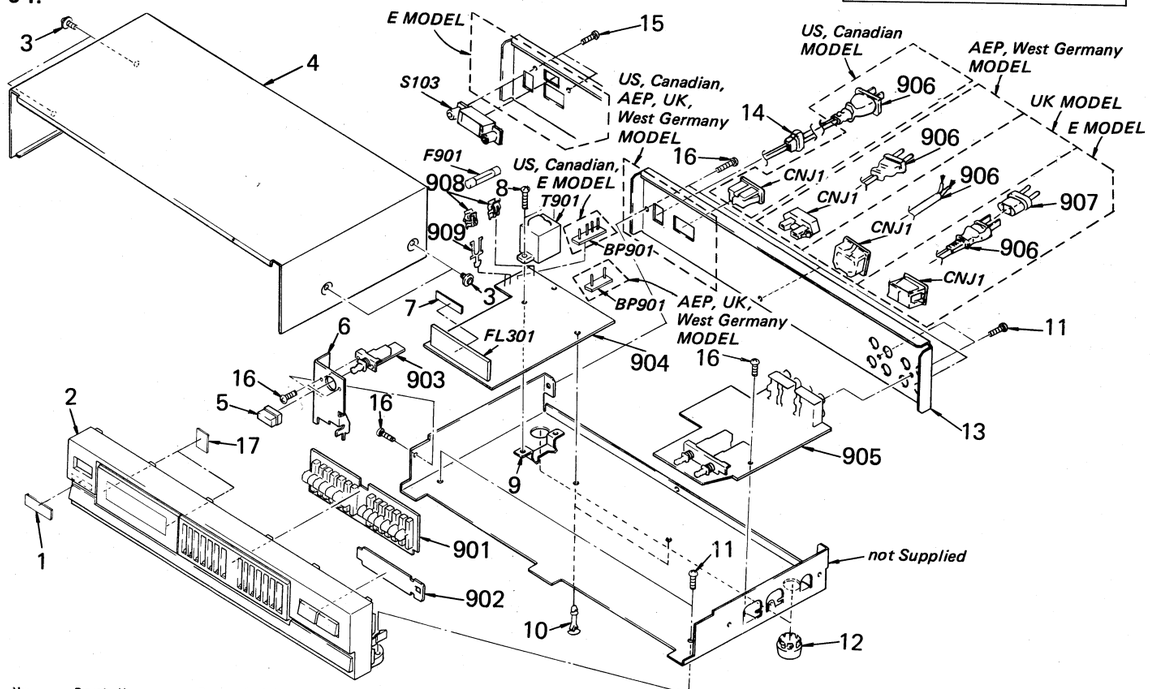
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-1.



No.	Part No.	Description	Remarks
1	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)	
2	X-4905-423-1	PANEL ASSY, FRONT	
3	3-704-366-01	SCREW (CASE) (M3X8)	
4	4-917-050-01	CASE	
5	4-917-460-01	KNOB, POWER	
6	*4-917-045-01	BRACKET (PW)	
7	9-911-839-XX	CUSHION (B)	
8	7-682-550-04	SCREW +BVTT 3X12 (S)	
9	*4-917-044-01	BRACKET (PT)	
10	*3-704-198-31	SUPPORT, PC	
11	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
12	X-4864-303-0	FOOT ASSY	
13	*4-910-819-01	(US,Canadian)....PANEL, BACK	
	*4-910-819-11	(UK).....PANEL, BACK	
	*4-910-819-21	(AEP).....PANEL, BACK	
	*4-910-819-31	(West Germany)...PANEL, BACK	
	*4-910-819-41	(E).....PANEL, BACK	
14	*⚠3-703-244-00	(AEP,UK,West Germany)..BUSHING(2104),CORD	
	⚠3-703-571-11	(US,Canadian,E)...BUSHING (S) (4516),CORD	
15	7-685-534-19	(E)...SCREW +BTP 2.6X8 TYPE 2 N-S	
16	7-682-548-04	SCREW +BVTT 3X8 (S)	
17	9-911-846-XX	CUSHION	
901	*1-626-133-01	PC BOARD, VR	
902	*1-626-132-11	PC BOARD, LED	
903	*1-626-134-11	PC BOARD, SW	
904	*A-4394-474-A	(US,Canadian)...MOUNTED PCB, POWER	
	*A-4394-475-A	(AEP,UK,West Germany) ...MOUNTED PCB, POWER	
	*A-4394-476-A	(E).....MOUNTED PCB, POWER	
905	*A-4388-742-A	MOUNTED PCB, GE	
906	⚠1-551-188-XX	(E).....CORD, POWER	
	⚠1-555-750-00	(AEP,West Germany)...CORD, POWER	
	⚠1-556-035-00	(UK).....CORD, POWER	
	⚠1-558-945-11	(US,Canadian)...CORD, POWER (POLAR.SPT-1)	
907	⚠1-526-565-00	(E)....AC PLUG ADAPTOR	
908	1-533-183-11	(AEP,UK,West Germany)...HOLDER, FUSE	
909	1-535-416-00	(AEP,UK,West Germany)...TERMINAL	
BP901	*1-535-139-00	(AEP,UK,West Germany) ...BASE POST 22MM (10MM PITCH) 2P	
BP901	*1-535-141-00	(US,Canadian,E) ...BASE POST 22MM (10MM PITCH) 4P	
CNJ1	⚠1-526-751-11	(UK).....OUTLET, AC	
CNJ1	⚠1-526-774-11	(E).....OUTLET, AC	
CNJ1	⚠1-526-794-11	(AEP,West Germany)...OUTLET, AC	
CNJ1	⚠1-526-882-00	(US,Canadian)...OUTLET, AC	
F901	⚠1-532-078-00	(AEP,UK,West Germany)...FUSE, TIME-LAG	
FL301	1-519-442-11	INDICATOR TUBE, FLUORESCENT	
S103	⚠1-570-046-21	(E)....SWITCH, VOLTAGE CHANGE (110-120V/220-240V)	
T901	⚠1-449-235-11	(US,Canadian)...TRANSFORMER, POWER	
T901	⚠1-449-236-11	(E).....TRANSFORMER, POWER	
T901	⚠1-449-237-11	(AEP,UK,West Germany)..TRANSFORMER, POWER	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The mark ⚠ a Repla speci

Les c marq sécur Ne l pièce

Ref.No.	Part No.	Description			
901	*1-626-133-11	PC BOARD, VR			
902	*1-626-132-11	PC BOARD, LED			
903	*1-626-134-11	PC BOARD, SW			
904	*A-4394-474-A	(US,Canadian)...MOUNTED PCB, POWER			
	*A-4394-475-A	(AEP,UK,West Germany) ...MOUNTED PCB, POWER			
	*A-4394-476-A	(E).....MOUNTED PCB, POWER			
905	*A-4388-742-A	MOUNTED PCB, GE			
906	⚠1-551-188-XX	(E).....CORD, POWER			
	⚠1-555-750-00	(AEP,West Germany)...CORD, POWER			
	⚠1-556-035-00	(UK).....CORD, POWER			
	⚠1-558-945-11	(US,Canadian)...CORD, POWER (POLAR.SPT-1)			
907	⚠1-526-565-00	(E)....AC PLUG ADAPTOR			
908	1-533-183-11	(AEP,UK,West Germany)...HOLDER, FUSE			
909	1-535-416-00	(AEP,UK,West Germany)...TERMINAL			
BP901	*1-535-139-00	(AEP,UK,West Germany) ...BASE POST 22MM (10MM PITCH) 2P			
BP901	*1-535-141-00	(US,Canadian,E) ...BASE POST 22MM (10MM PITCH) 4P			
CNJ1	⚠1-526-751-11	(UK).....OUTLET, AC			
CNJ1	⚠1-526-774-11	(E).....OUTLET, AC			
CNJ1	⚠1-526-794-11	(AEP,West Germany)...OUTLET, AC			
CNJ1	⚠1-526-882-00	(US,Canadian)...OUTLET, AC			
F901	⚠1-532-078-00	(AEP,UK,West Germany)...FUSE, TIME-LAG			
FL301	1-519-442-11	INDICATOR TUBE, FLUORESCENT			
S103	⚠1-570-046-21	(E)....SWITCH, VOLTAGE CHANGE (110-120V/220-240V)			
T901	⚠1-449-235-11	(US,Canadian)...TRANSFORMER, POWER			
T901	⚠1-449-236-11	(E).....TRANSFORMER, POWER			
T901	⚠1-449-237-11	(AEP,UK,West Germany)..TRANSFORMER, POWER			
C101	1-123-382-00	ELECT	3.3MF	20%	50V
C102	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C103	1-123-875-11	ELECT	10MF	20%	50V
C104	1-124-463-00	ELECT	0.1MF	20%	50V
C105	1-124-257-00	ELECT	2.2MF	20%	50V
C106	1-136-161-00	FILM	0.047MF	5%	50V
C107	1-123-611-00	ELECT	1MF	20%	50V
C108	1-136-157-00	FILM	0.022MF	5%	50V
C109	1-124-252-00	ELECT	0.33MF	20%	50V
C110	1-136-153-00	FILM	0.01MF	5%	50V
C111	1-124-463-00	ELECT	0.1MF	20%	50V
C112	1-130-476-00	MYLAR	0.0027MF	5%	50V
C113	1-136-162-00	FILM	0.056MF	5%	50V
C114	1-130-473-00	MYLAR	0.0015MF	5%	50V
C115	1-136-156-00	FILM	0.018MF	5%	50V
C116	1-102-114-00	CERAMIC	470PF	10%	50V
C117	1-136-153-00	FILM	0.01MF	5%	50V
C118	1-123-875-11	ELECT	10MF	20%	50V
C201	1-123-382-00	ELECT	3.3MF	20%	50V
C202	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C203	1-123-875-11	ELECT	10MF	20%	50V
C204	1-124-463-00	ELECT	0.1MF	20%	50V
C205	1-124-257-00	ELECT	2.2MF	20%	50V
C206	1-136-161-00	FILM	0.047MF	5%	50V
C207	1-123-611-00	ELECT	1MF	20%	50V
C208	1-136-157-00	FILM	0.022MF	5%	50V
C209	1-124-252-00	ELECT	0.33MF	20%	50V
C210	1-136-153-00	FILM	0.01MF	5%	50V
C211	1-124-463-00	ELECT	0.1MF	20%	50V
C212	1-130-476-00	MYLAR	0.0027MF	5%	50V
C213	1-136-162-00	FILM	0.056MF	5%	50V
C214	1-130-473-00	MYLAR	0.0015MF	5%	50V
C215	1-136-156-00	FILM	0.018MF	5%	50V
C216	1-102-114-00	CERAMIC	470PF	10%	50V
C217	1-136-153-00	FILM	0.01MF	5%	50V
C218	1-123-875-11	ELECT	10MF	20%	50V
C301	1-124-908-11	ELECT	100MF	20%	16V
C302	1-124-908-11	ELECT	100MF	20%	16V
C303	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C304	1-136-161-00	FILM	0.047MF	5%	50V
C305	1-136-161-00	FILM	0.047MF	5%	50V
C306	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C307	1-124-925-11	ELECT	47MF	20%	16V
C308	1-124-925-11	ELECT	47MF	20%	16V
C309	1-124-925-11	ELECT	47MF	20%	16V
C310	1-136-156-00	FILM	0.018MF	5%	50V
C311	1-136-156-00	FILM	0.018MF	5%	50V
C312	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C313	1-124-925-11	ELECT	47MF	20%	16V
C314	1-130-480-00	MYLAR	0.0047MF	5%	50V
C315	1-130-480-00	MYLAR	0.0047MF	5%	50V
C316	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C317	1-124-925-11	ELECT	47MF	20%	16V
C318	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C319	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C320	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C321	1-124-925-11	ELECT	47MF	20%	16V
C322	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C323	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C324	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C325	1-124-925-11	ELECT	47MF	20%	16V
C326	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C327	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C328	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C329	1-124-925-11	ELECT	47MF	20%	16V
C330	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C331	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C332	1-162-215-31	CERAMIC	0.0022MF	10%	50V
C333	1-124-925-11	ELECT	47MF	20%	16V

SECTION 4
ELECTRICAL PARTS LIST

placements in the parts
n the parts specified in
onents used on the set.
ot stocked since they
routine service. Some
ed when ordering these

same circuits in a set
machine, only typical
ated and capacitors and
rcuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

scription			
BOARD, VR			
BOARD, LED			
BOARD, SW			
,Canadian)...MOUNTED PCB, POWER			
P,UK,West Germany)			
...MOUNTED PCB, POWER			
.....MOUNTED PCB, POWER			
NTED PCB, GE			
.....CORD, POWER			
P,West Germany)...CORD, POWER			
).....CORD, POWER			
,Canadian)...CORD, POWER			
(POLAR.SPT-1)			
....AC PLUG ADAPTOR			
P,UK,West Germany)...HOLDER, FUSE			
P,UK,West Germany)...TERMINAL			
P,UK,West Germany)...BASE POST 22MM			
(10MM PITCH) 2P			
,Canadian,E)...BASE POST 22MM			
(10MM PITCH) 4P			
CT	3.3MF	20%	50V
AMIC	0.0015MF	30%	16V
CT	10MF	20%	50V
CT	0.1MF	20%	50V
CT	2.2MF	20%	50V
M	0.047MF	5%	50V
CT	1MF	20%	50V
M	0.022MF	5%	50V
CT	0.33MF	20%	50V
M	0.01MF	5%	50V
CT	0.1MF	20%	50V
AR	0.0027MF	5%	50V
M	0.056MF	5%	50V
AR	0.0015MF	5%	50V
M	0.018MF	5%	50V
AMIC	470PF	10%	50V
M	0.01MF	5%	50V
CT	10MF	20%	50V
CT	3.3MF	20%	50V
AMIC	0.0015MF	30%	16V
CT	10MF	20%	50V
CT	0.1MF	20%	50V
CT	2.2MF	20%	50V
M	0.047MF	5%	50V

Ref.No.	Part No.	Description			
C207	1-123-611-00	ELECT	1MF	20%	50V
C208	1-136-157-00	FILM	0.022MF	5%	50V
C209	1-124-252-00	ELECT	0.33MF	20%	50V
C210	1-136-153-00	FILM	0.01MF	5%	50V
C211	1-124-463-00	ELECT	0.1MF	20%	50V
C212	1-130-476-00	MYLAR	0.0027MF	5%	50V
C213	1-136-162-00	FILM	0.056MF	5%	50V
C214	1-130-473-00	MYLAR	0.0015MF	5%	50V
C215	1-136-156-00	FILM	0.018MF	5%	50V
C216	1-102-114-00	CERAMIC	470PF	10%	50V
C217	1-136-153-00	FILM	0.01MF	5%	50V
C218	1-123-875-11	ELECT	10MF	20%	50V
C301	1-124-908-11	ELECT	22MF	20%	25V
C302	1-124-908-11	ELECT	22MF	20%	25V
C303	1-162-215-31	CERAMIC	47PF	5%	50V
C304	1-136-161-00	FILM	0.047MF	5%	50V
C305	1-136-161-00	FILM	0.047MF	5%	50V
C306	1-162-215-31	CERAMIC	47PF	5%	50V
C307	1-124-925-11	ELECT	2.2MF	20%	50V
C308	1-124-925-11	ELECT	2.2MF	20%	50V
C309	1-124-925-11	ELECT	2.2MF	20%	50V
C310	1-136-156-00	FILM	0.018MF	5%	50V
C311	1-136-156-00	FILM	0.018MF	5%	50V
C312	1-162-215-31	CERAMIC	47PF	5%	50V
C313	1-124-925-11	ELECT	2.2MF	20%	50V
C314	1-130-480-00	MYLAR	0.0056MF	5%	50V
C315	1-130-480-00	MYLAR	0.0056MF	5%	50V
C316	1-162-215-31	CERAMIC	47PF	5%	50V
C317	1-124-925-11	ELECT	2.2MF	20%	50V
C318	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C319	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C320	1-162-215-31	CERAMIC	47PF	5%	50V
C321	1-124-925-11	ELECT	2.2MF	20%	50V
C322	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C323	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C324	1-162-215-31	CERAMIC	47PF	5%	50V
C325	1-124-925-11	ELECT	2.2MF	20%	50V
C326	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C327	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C328	1-162-215-31	CERAMIC	47PF	5%	50V
C329	1-124-925-11	ELECT	2.2MF	20%	50V
C330	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C331	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C332	1-162-215-31	CERAMIC	47PF	5%	50V
C333	1-124-925-11	ELECT	2.2MF	20%	50V

Ref.No.	Part No.	Description			
C335	1-124-908-11	ELECT	22MF	20%	25V
C336	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C337	1-101-005-00	CERAMIC	0.022MF		50V
C402	1-124-479-11	ELECT	330MF	20%	25V
C403	1-124-479-11	ELECT	330MF	20%	25V
C404	1-124-478-11	ELECT	100MF	20%	25V
C405	1-124-478-11	ELECT	100MF	20%	25V
C406	1-124-477-11	ELECT	47MF	20%	25V
C407	1-124-477-11	ELECT	47MF	20%	25V
C408	1-123-875-11	ELECT	10MF	20%	50V
C409	1-123-875-11	ELECT	10MF	20%	50V
C411	1-124-910-11	ELECT	47MF	20%	50V
C412	1-124-910-11	ELECT	47MF	20%	50V
C413	1-161-379-00	CERAMIC	0.01MF	30%	25V
C414	1-161-379-00	CERAMIC	0.01MF	30%	25V
CN101	*1-565-363-11	HOLDER, CABLE (PC BAORD) 10P			
CN102	*1-565-363-11	HOLDER, CABLE (PC BAORD) 10P			
CN103	*1-565-361-11	HOLDER, CABLE (PC BAORD) 7P			
CN104	*1-566-840-11	HOLDER, CABLE (PC BAORD) 4P			
CN301	*1-565-363-11	HOLDER, CABLE (PC BAORD) 10P			
CN302	*1-565-363-11	HOLDER, CABLE (PC BAORD) 10P			
CN401	*1-565-361-11	HOLDER, CABLE (PC BAORD) 7P			
CN402	*1-566-840-11	HOLDER, CABLE (PC BAORD) 4P			
CN403	*1-566-840-11	HOLDER, CABLE (PC BAORD) 4P			
CNJ1	⚠1-526-751-11	(UK).....OUTLET, AC			
CNJ1	⚠1-526-774-11	(E).....OUTLET, AC			
CNJ1	⚠1-526-794-11	(AEP,West Germany)...OUTLET, AC			
CNJ1	⚠1-526-882-00	(US,Canadian).....OUTLET, AC			
CP301	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
CP302	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
CP303	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
D301	8-719-000-26	DIODE US1060M			
D302	8-719-000-26	DIODE US1060M			
D303	8-719-000-26	DIODE US1060M			
D304	8-719-000-26	DIODE US1060M			
D305	8-719-000-26	DIODE US1060M			
D306	8-719-000-26	DIODE US1060M			
D307	8-719-000-26	DIODE US1060M			
D308	8-719-000-26	DIODE US1060M			
D309	8-719-000-26	DIODE US1060M			
D310	8-719-000-26	DIODE US1060M			
D311	8-719-000-26	DIODE US1060M			
D312	8-719-000-26	DIODE US1060M			
D313	8-719-000-26	DIODE US1060M			
D314	8-719-000-26	DIODE US1060M			
D315	8-719-000-26	DIODE US1060M			

Ref.No.	Part No.	Description			
D316	8-719-000-26	DIODE US1060M			
D401	⚠8-719-200-77	DIODE 10E2N			
D402	⚠8-719-200-77	DIODE 10E2N			
D403	⚠8-719-200-77	DIODE 10E2N			
D404	⚠8-719-200-77	DIODE 10E2N			
D405	8-719-000-26	DIODE US1060M			
D406	8-719-000-26	DIODE US1060M			
D407	8-719-000-63	DIODE UZL-6M3			
D408	8-719-000-63	DIODE UZL-6M3			
D409	8-719-000-26	DIODE US1060M			
D410	8-719-310-75	DIODE SEL1524W-C			
D411	8-719-310-75	DIODE SEL1524W-C			
F901	⚠1-532-078-00	(AEP,UK,West Germany)...FUSE, TIME-LAG			
FL301	1-519-442-11	INDICATOR TUBE, FLUORESCENT			
IC101	8-759-603-14	IC M5229P			
IC201	8-759-603-14	IC M5229P			
IC301	8-759-820-07	IC LC7566			
IC302	8-759-601-02	IC M5218P			
IC303	8-759-601-02	IC M5218P			
IC304	8-759-601-02	IC M5218P			
IC305	8-759-601-02	IC M5218P			
J101	1-565-258-21	JACK, PIN 4P (LINE IN/OUT)			
J201	1-565-258-21	JACK, PIN 4P (TAPE RECORDER IN/REC OUT)			
Q101	8-729-107-98	TRANSISTOR 2SC3622A-L			
Q201	8-729-107-98	TRANSISTOR 2SC3622A-L			
Q401	8-729-194-57	TRANSISTOR 2SC945-P			
Q402	8-729-173-37	TRANSISTOR 2SA733-P			
Q403	8-729-194-57	TRANSISTOR 2SC945-P			
Q404	8-729-600-27	TRANSISTOR 2SC634SP			
R101	1-247-903-00	CARBON	1M	5%	1/4W
R102	1-249-441-11	CARBON	100K	5%	1/4W
R103	1-249-423-11	CARBON	3.3K	5%	1/4W
R105	1-249-423-11	CARBON	3.3K	5%	1/4W
R106	1-249-441-11	CARBON	100K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-429-11	CARBON	10K	5%	1/4W
R109	1-249-441-11	CARBON	100K	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R111	1-249-413-11	CARBON	470	5%	1/4W
R201	1-247-903-00	CARBON	1M	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-423-11	CARBON	3.3K	5%	1/4W
R205	1-249-423-11	CARBON	3.3K	5%	1/4W
R206	1-249-441-11	CARBON	100K	5%	1/4W

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
R207	1-249-421-11	CARBON	2.2K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-413-11	CARBON	470	5%	1/4W
R211	1-249-413-11	CARBON	470	5%	1/4W
R301	1-249-417-11	CARBON	1K	5%	1/4W
R302	1-249-405-11	CARBON	100	5%	1/4W
R303	1-247-885-00	CARBON	180K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-413-11	CARBON	470	5%	1/4W
R306	1-249-440-11	CARBON	82K	5%	1/4W
R307	1-247-903-00	CARBON	1M	5%	1/4W
R308	1-247-903-00	CARBON	1M	5%	1/4W
R309	1-249-441-11	CARBON	100K	5%	1/4W
R310	1-249-424-11	CARBON	3.9K	5%	1/4W
R311	1-249-441-11	CARBON	100K	5%	1/4W
R312	1-247-903-00	CARBON	1M	5%	1/4W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-441-11	CARBON	100K	5%	1/4W
R316	1-249-426-11	CARBON	5.6K	5%	1/4W
R317	1-249-441-11	CARBON	100K	5%	1/4W
R318	1-247-903-00	CARBON	1M	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R320	1-249-423-11	CARBON	3.3K	5%	1/4W
R321	1-249-439-11	CARBON	68K	5%	1/4W
R322	1-215-489-00	CARBON	680K	5%	1/4W
R323	1-249-441-11	CARBON	100K	5%	1/4W
R324	1-249-419-11	CARBON	1.5K	5%	1/4W
R325	1-249-434-11	CARBON	27K	5%	1/4W
R326	1-247-889-00	CARBON	270K	5%	1/4W
R327	1-249-441-11	CARBON	100K	5%	1/4W
R328	1-249-414-11	CARBON	560	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-247-881-00	CARBON	120K	5%	1/4W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R332	1-249-410-11	CARBON	270	5%	1/4W
R333	1-249-424-11	CARBON	3.9K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-249-441-11	CARBON	100K	5%	1/4W
R336	1-247-881-00	CARBON	120K	5%	1/4W
R337	1-247-881-00	CARBON	120K	5%	1/4W
R338	1-249-432-11	CARBON	18K	5%	1/4W
R339	1-247-903-00	CARBON	1M	5%	1/4W
R340	1-249-441-11	CARBON	100K	5%	1/4W
R342	1-249-423-11	CARBON	3.3K	5%	1/4W

Ref.No.	Part No.	Description			
R401 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W F
R402 ⚠	1-249-455-11	CARBON	4.7	5%	1/4W F
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-425-11	CARBON	4.7K	5%	1/4W
R406	1-247-704-11	CARBON	220	5%	1/4W
R407	1-249-426-11	CARBON	5.6K	5%	1/4W
R408	1-247-885-00	CARBON	180K	5%	1/4W
R409	1-249-437-11	CARBON	47K	5%	1/4W
R410	1-249-441-11	CARBON	100K	5%	1/4W
R411	1-247-756-11	CARBON	2.2K	5%	1/2W
R412	1-247-703-11	CARBON	180	5%	1/4W
R413	1-247-703-11	CARBON	180	5%	1/4W
RV101	1-238-113-11	RES, VAR, SLIDE 50K (60Hz)			
RV102	1-238-113-11	RES, VAR, SLIDE 50K (150Hz)			
RV103	1-238-113-11	RES, VAR, SLIDE 50K (400Hz)			
RV104	1-238-113-11	RES, VAR, SLIDE 50K (1kHz)			
RV105	1-238-113-11	RES, VAR, SLIDE 50K (2.4kHz)			
RV106	1-238-113-11	RES, VAR, SLIDE 50K (6kHz)			
RV107	1-238-113-11	RES, VAR, SLIDE 50K (14kHz)			
RV201	1-238-113-11	RES, VAR, SLIDE 50K (60Hz)			
RV202	1-238-113-11	RES, VAR, SLIDE 50K (150Hz)			
RV203	1-238-113-11	RES, VAR, SLIDE 50K (400Hz)			
RV204	1-238-113-11	RES, VAR, SLIDE 50K (1kHz)			
RV205	1-238-113-11	RES, VAR, SLIDE 50K (2.4kHz)			
RV206	1-238-113-11	RES, VAR, SLIDE 50K (6kHz)			
RV207	1-238-113-11	RES, VAR, SLIDE 50K (14kHz)			
S101	1-571-477-11	SWITCH, PUSH (2 KEY)(TAPE/EQUALIZATION)			
S102 ⚠	1-570-272-11	SWITCH, PUSH (1 KEY)(POWER)			
S103 ⚠	1-570-046-21	(E)...SWITCH, VOLTAGE CHANGE (110-120V/220-240V)			
T901 ⚠	1-449-235-11	(US,Canadian)...TRANSFORMER, POWER			
T901 ⚠	1-449-236-11	(E).....TRANSFORMER, POWER			
T901 ⚠	1-449-237-11	(AEP,UK,West Germany) ...TRANSFORMER, POWER			

ACCESSORY & PACKING MATERIAL

1-558-787-21	CORD, CONNECTION
3-703-390-01	(US)...INSTRUCTION
3-769-966-11	(AEP,UK,West Germany,E) ...MANUAL, INSTRUCTION
3-769-966-21	(US,Canadian)...MANUAL, INSTRUCTION
3-769-966-31	(Canadian).....MANUAL, INSTRUCTION
*3-704-339-01	SHEET (STANDARD), PROTECTION
*4-905-461-21	INDIVIDUAL CARTON
*4-910-820-01	CUSHION

Note:
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Replace only with part number specified.

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Ne les remplacer que par une pièce portant le numéro spécifié.

Troubleshooting Guide

Before going through the check list below, first refer back to the connections and operating procedures.
Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Symptom	Cause
No audio even when the POWER switch is turned on.	• The power cord is disconnected. • The connecting cord is disconnected. • The TAPE switch setting is not correct.
No equalization	• The EQUALIZATION switch is set to OFF (the indicator is off). • Connections are not made properly.
The program source connected to the amplifier cannot be recorded.	• The TAPE switch is set to ON.

9-953-155-11

Sony Corporation
Audio Group

English
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